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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

Title Of Invention: **Co-Simulation Via Boundary Scan Interface** Docket No. **X-1408 US**

As a below named inventor(s), I/We declare that:

This declaration is directed to:

- ☒ The attached application, or  
☐ Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
☐ as amended (on) \_\_\_\_\_ (if applicable);

I/We believe I/We am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/We acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available while the application was pending in the United States Patent and Trademark Office; and

All statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001; and may jeopardize the validity of the application or any patent issuing thereon.

**FULL NAME OF INVENTOR(S)**

Inventor One: **Jonathan B. Ballagh** Date **JUNE 10<sup>th</sup> 2003**

Signature: *Jonathan B. Ballagh* Citizen of: **United States**

Inventor Two: **Nabeel Shirazi** Date **6/17/03**

Signature: *Nabeel Shirazi* Citizen of: **United States**

Inventor Three: **Christopher N. Battson** Date **6/17/03**

Signature: *Christopher N. Battson* Citizen of: **United States**

Inventor Four: **Michael E. Darnall** Date **6/18/03**

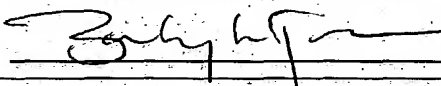
Signature: *Michael E. Darnall* Citizen of: **United States**

☒ Additional inventors are being named on **ONE** additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the PTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

KK:pbs

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)****(Additional Inventors)**

Inventor Five:	<u>Bradley K. Fross</u>	Date	<u>16-JUN-2003</u>
Signature:	<u></u>	Citizen of:	<u>United States</u>
Inventor Six:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Seven:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Eight:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Nine:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Ten:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Eleven:	_____	Date	_____
Signature:	_____	Citizen of:	_____
Inventor Twelve:	_____	Date	_____
Signature:	_____	Citizen of:	_____

FORM PTO-1595

6-93

OMB No. 0651-0011 (exp. 4/94)

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent Office

## PATENTS ONLY

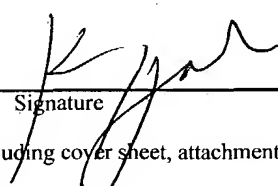
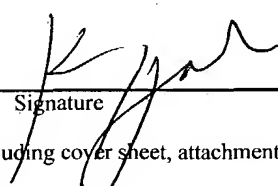
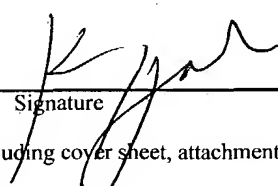
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Jonathan B. Ballagh; Nabeel Shirazi; Christopher N. Battson; Michael E. Darnall; Bradley K. Fross  Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No	2. Name and address of receiving party(ies): Name: <u>Xilinx, Inc.</u> Internal Address: _____
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>06-10, 16, 17, 18-2003</u>	Street Address: <u>2100 Logic Drive</u> City: <u>San Jose</u> State: <u>California</u> Zip: <u>95124</u> Additional name(s) & address(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the filing date of the application is: <u>06-19-03</u> <table border="1"> <tr> <td data-bbox="99 766 808 945">           A. Patent Application No.(s)            Jonathan B. Ballagh; Nabeel Shirazi; Christopher N. Battson;            Michael E. Darnall; Bradley K. Fross            "Co-Simulation Via Boundary Scan Interface"         </td> <td data-bbox="808 766 1513 945">           B. Patent No.(s)         </td> </tr> </table> Additional numbers attached? [ ] Yes [X] No		A. Patent Application No.(s) Jonathan B. Ballagh; Nabeel Shirazi; Christopher N. Battson; Michael E. Darnall; Bradley K. Fross "Co-Simulation Via Boundary Scan Interface"	B. Patent No.(s)
A. Patent Application No.(s) Jonathan B. Ballagh; Nabeel Shirazi; Christopher N. Battson; Michael E. Darnall; Bradley K. Fross "Co-Simulation Via Boundary Scan Interface"	B. Patent No.(s)		

5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>KIM KANZAKI</u> Internal Address: <u>Xilinx, Inc.</u> Street Address: <u>2100 Logic Drive</u> City: <u>San Jose</u> State: <u>California</u> Zip: <u>95124</u>	6. Total number of applications and patents involved: <u>one</u> 7. Total fee (37 CFR 3.41): .....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit Account Number: <u>24-0040</u> (Attach duplicate copy of this page if paying by deposit account)
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DO NOT USE THIS SPACE

9. Statement and signature.  <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table> <tr> <td data-bbox="99 1638 519 1711"> <u>KIM KANZAKI, 37,652</u>            Name of Person Signing         </td> <td data-bbox="519 1596 1023 1785">             Signature         </td> <td data-bbox="1023 1638 1513 1711"> <u>June 19, 2003</u>            Date         </td> </tr> </table> Total number of pages including cover sheet, attachments, and document: [ 04]			<u>KIM KANZAKI, 37,652</u> Name of Person Signing	 Signature	<u>June 19, 2003</u> Date
<u>KIM KANZAKI, 37,652</u> Name of Person Signing	 Signature	<u>June 19, 2003</u> Date			

PBS

Mail documents to be recorded with required cover sheet information to  
 Commissioner for Patents, Mail Stop: Assignments  
 Alexandria, Virginia 22313-1450



ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

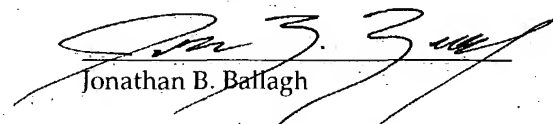
<u>Ballagh, Jonathan B.</u>	of	<u>1537 Goshawk Drive, Longmont, CO</u>
<u>Nabeel Shirazi</u>	of	<u>1318 Chandon Court, San Jose, CA 95125</u>
<u>Christopher N. Battson</u>	of	<u>880 Pacheco, San Francisco, CA 94116</u>
<u>Michael E. Darnall</u>	of	<u>234 Gomes Court #3, Campbell, CA 95008</u>
<u>Bradley K. Fross</u>	of	<u>117 Alfred Drive, Claremont, CA 91711</u>

hereby sell, assign and transfer to **Xilinx, Inc., a Delaware corporation**, having a place of business at **2100 Logic Drive, San Jose, California 95124**, its successors and assigns, the entire right, title and interest throughout the world in our invention

CO-SIMULATION VIA BOUNDARY SCAN INTERFACE

for which I/we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I/we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me/us; I/we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at its request and expense, in obtaining and enforcing patents for said invention in all countries; and I/we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 10<sup>th</sup> day of JUNE, 2003.

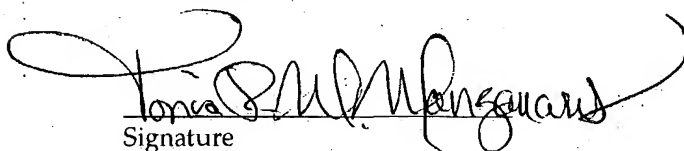
  
Jonathan B. Ballagh

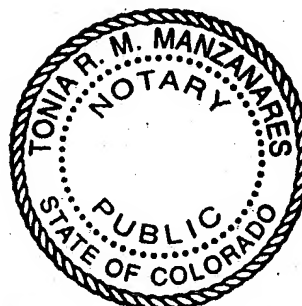
State of Colorado )  
County of Boulder )

CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

On June 10, 2003 before me Tonia R. M. Manzanarez, Notary Public, personally appeared Jonathan B. Ballagh [X] personally known to me --or-- [ ] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

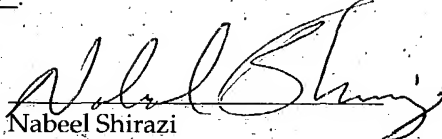
WITNESS my hand and official seal.

  
Signature



My Commission Expires 2/22/2006

Executed this 17<sup>th</sup> day of June, 2003.

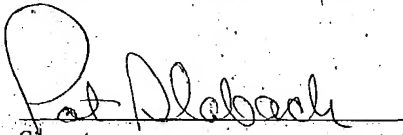
  
Nabeel Shirazi

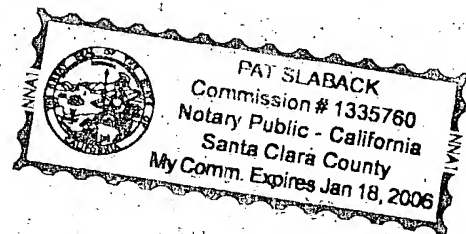
State of California  
County of Santa Clara

CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

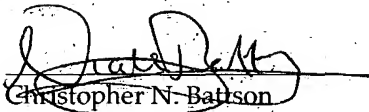
On June 17, 2003 before me, Pat Slaback, Notary Public, personally appeared Nabeel Shirazi [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature



Executed this 17<sup>th</sup> day of June, 2003.

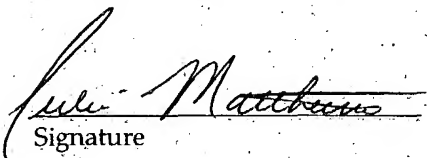
  
Christopher N. Battison

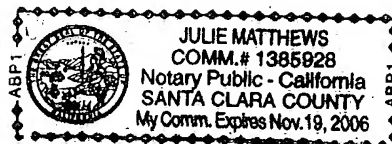
State of California  
County of Santa Clara

CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

On June 17, 2003 before me, Pat Slaback, Notary Public, personally appeared Christopher N. Battison [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature



Executed this 18<sup>th</sup> day of June, 2003.

Michael E. Darnall  
Michael E. Darnall

State of California  
County of Santa Clara

CAPACITY CLAIMED BY SIGNER  
[X] oneself/themselves

On June 18, 2003 before me, Pat Slaback, Notary Public, personally appeared Michael E. Darnall [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Pat Slaback  
Signature

Executed this 16 day of June, 2003.

Bradley K. Fross  
Bradley K. Fross

State of California  
County of Los Angeles

CAPACITY CLAIMED BY SIGNER  
[X] oneself/themselves

On June 16 2003 before me, Patti Cummings, Notary Public, personally appeared Bradley K. Fross [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Patti Cummings  
Signature

